

LINEAR FLOW EQUALIZER FOR UNIFORM POLYMER DISTRIBUTION IN A SPIN PACK OF A MELTSPINNING APPARATUS

Abstract of the Disclosure

A linear flow equalizer for distributing thermoplastic material to a spin pack of a meltspinning apparatus that provides for uniform apportionment of a flow of a flowable thermoplastic material at least vertically and in a cross-machine direction of the spin pack. The linear flow equalizer includes an inlet plate with multiple liquid passageways equidistantly spaced in the cross-machine direction that each provide flowable thermoplastic material to a set of equalizer plates. Elongated slots extending through alternating equalizer plates are registered with throughholes extending through adjacent plates in the equalizer plate set. Each throughhole in an upstream equalizer plate is registered with the center of a corresponding slot and each throughhole in a downstream equalizer plate is registered with one of opposed closed ends of a corresponding slot.